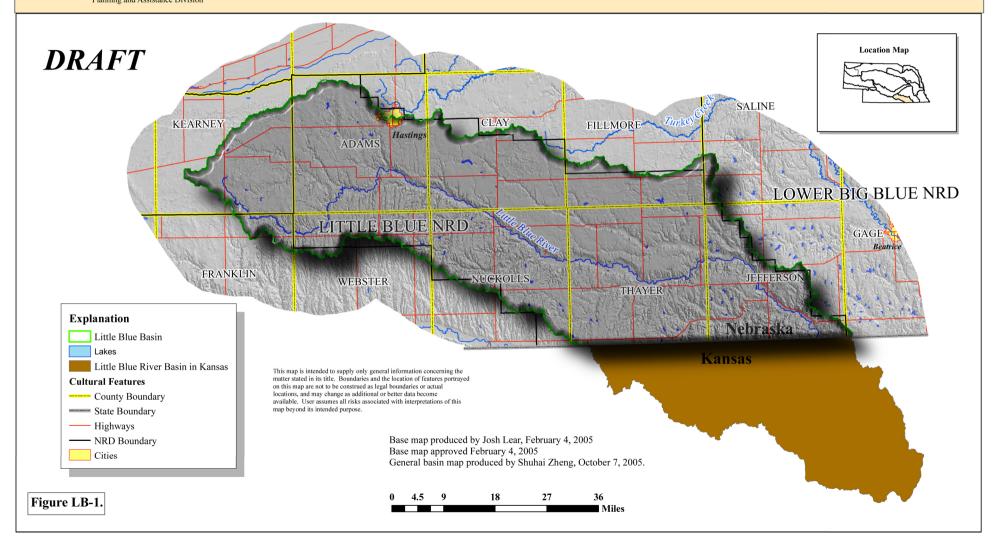


### GENERAL BASIN MAP LITTLE BLUE RIVER BASIN







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# General Surface Water Features LITTLE BLUE RIVER BASIN



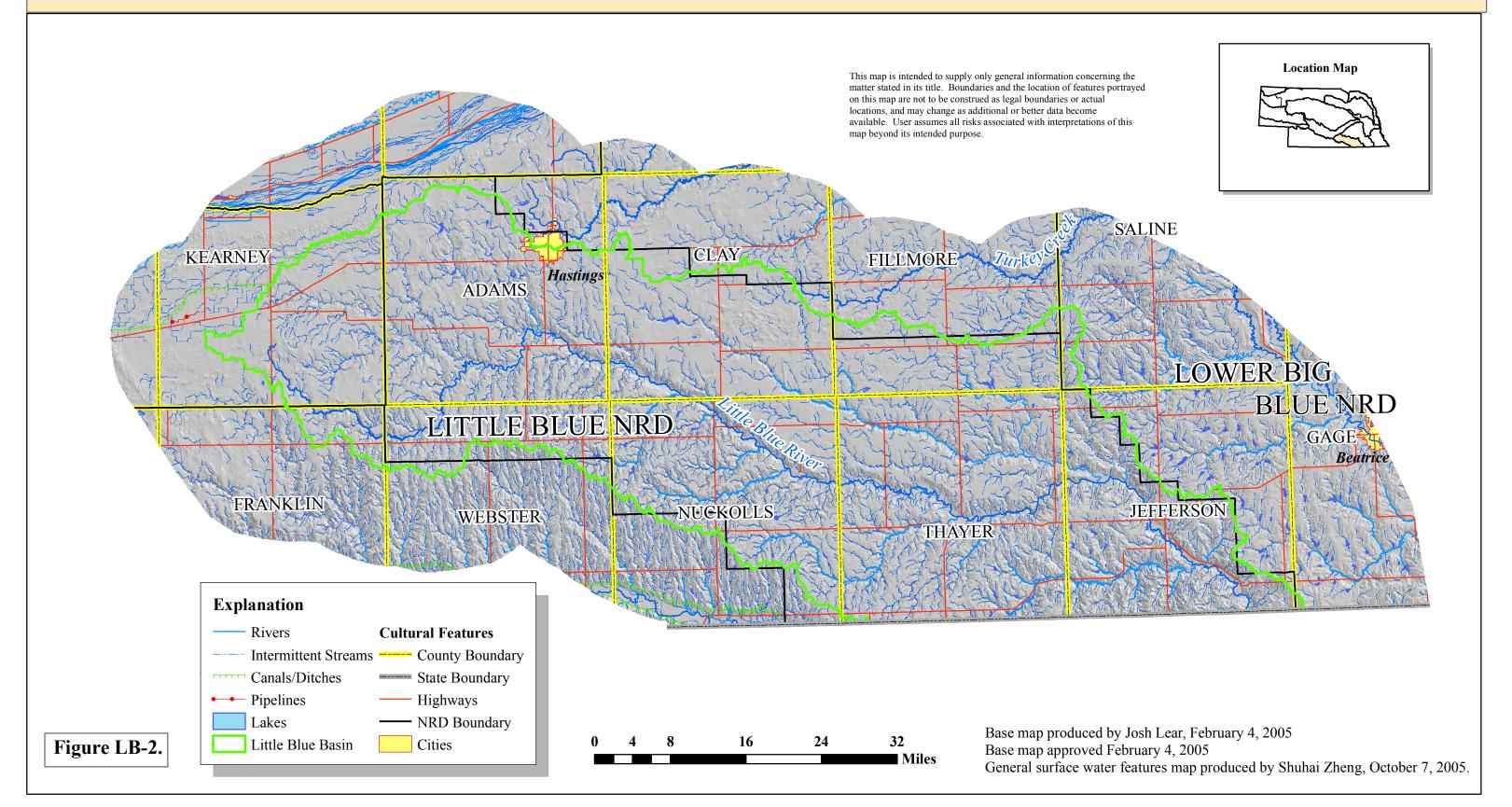


Figure LB-3. Annual Precipitation at Clay Center, Nebraska.

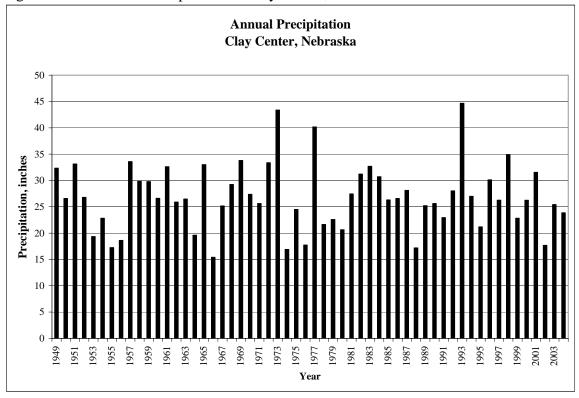


Figure LB-4. Growing Season (May-September) Precipitation at Clay Center, Nebraska.

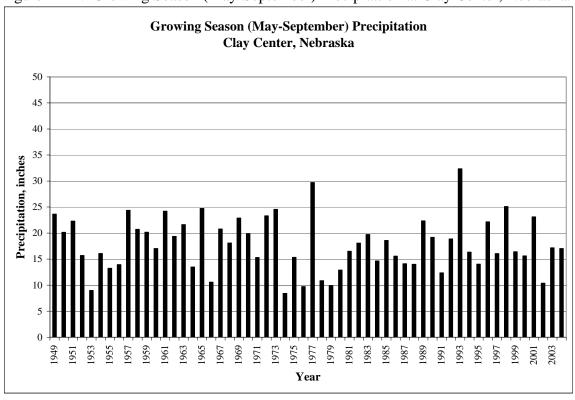


Figure LB-5. Annual Precipitation at Fairbury, Nebraska.

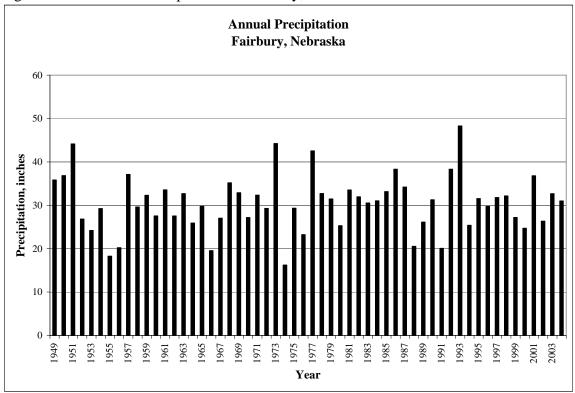


Figure LB-6. Growing Season (May-September) Precipitation at Fairbury, Nebraska.

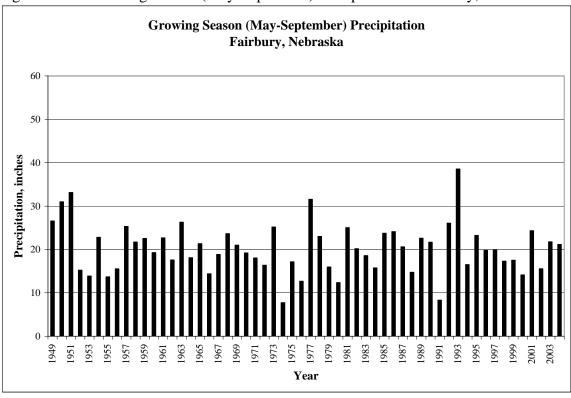


Figure LB-7. Annual Precipitation at Hastings, Nebraska.

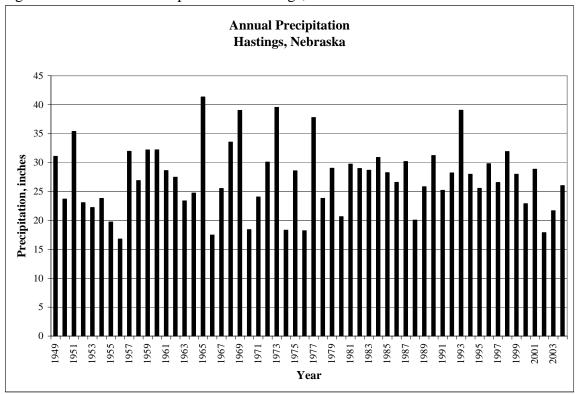


Figure LB-8. Growing Season (May-September) Precipitation at Hastings, Nebraska.

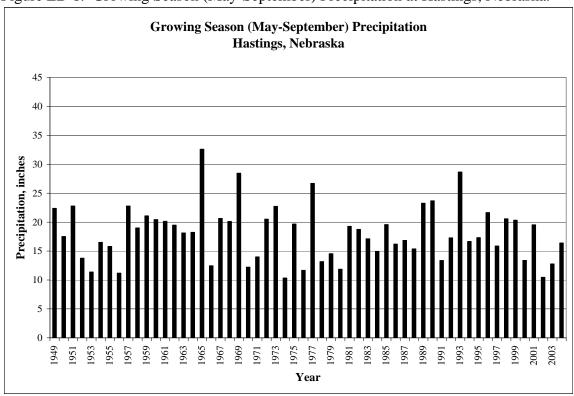


Figure LB-9. Annual Precipitation at Hebron, Nebraska.

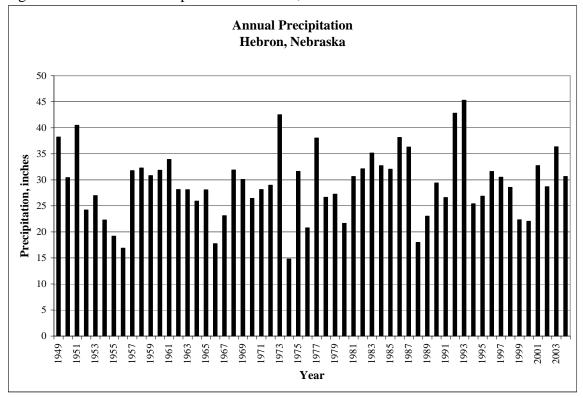


Figure LB-10. Growing Season (May-September) Precipitation at Hebron, Nebraska.

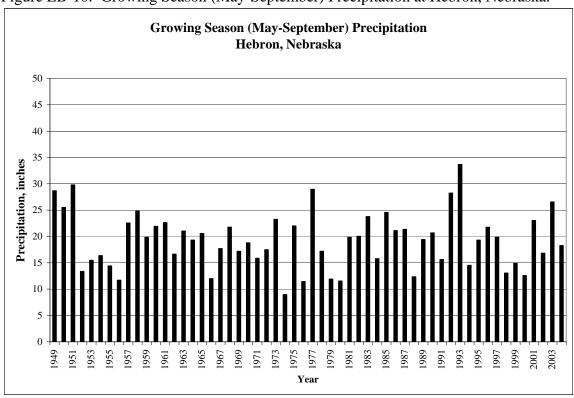


Figure LB-11. Annual Precipitation at Nelson, Nebraska.

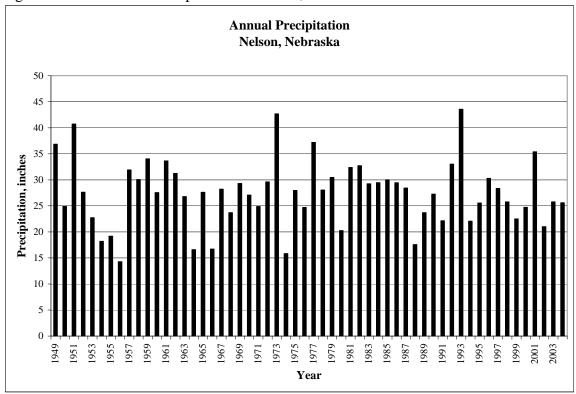
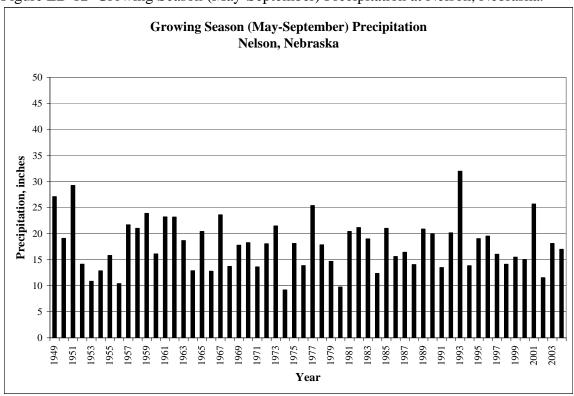


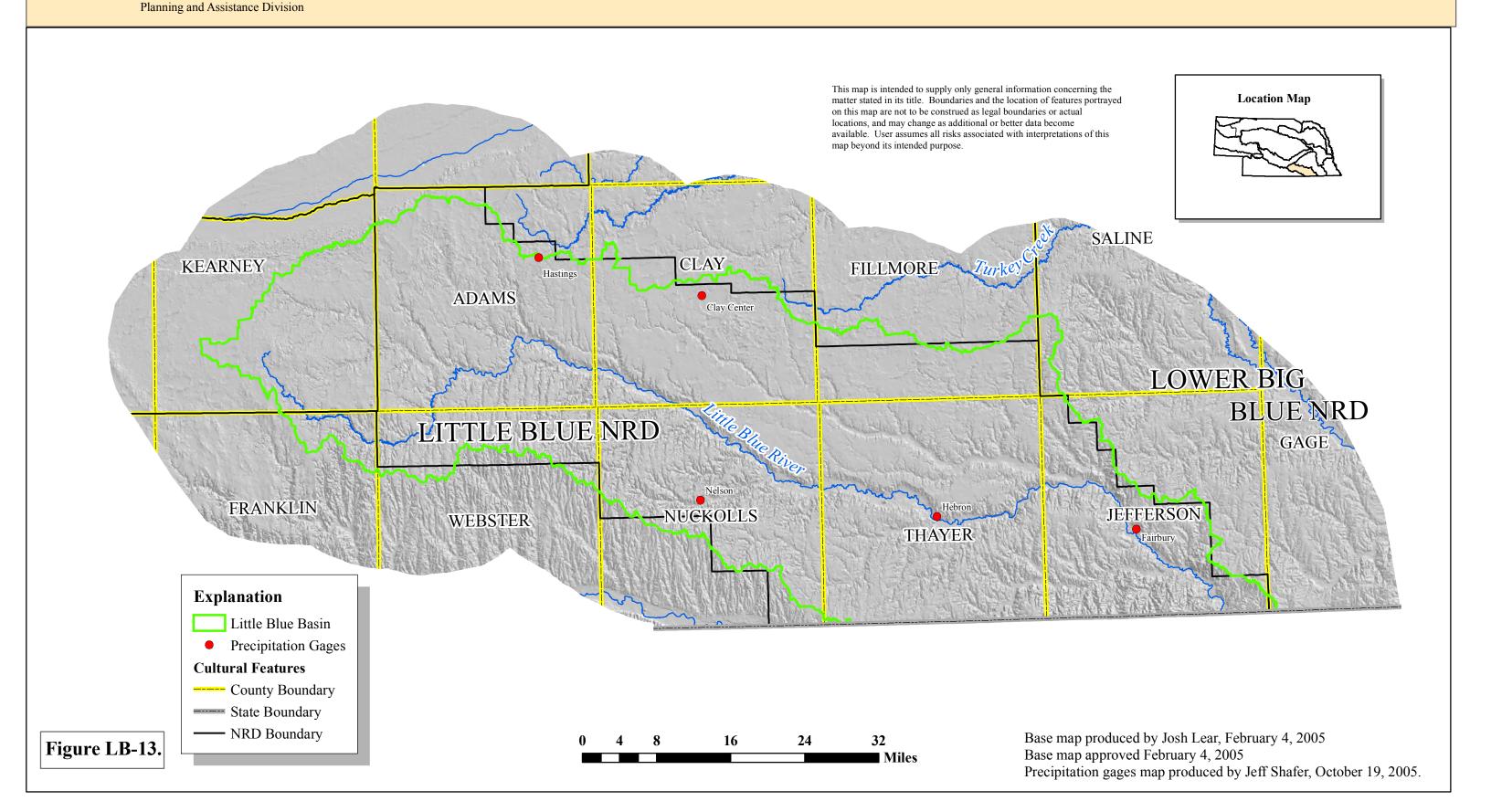
Figure LB-12 Growing Season (May-September) Precipitation at Nelson, Nebraska.





### Precipitation Gages LITTLE BLUE RIVER BASIN







# Glacial Till LITTLE BLUE RIVER BASIN



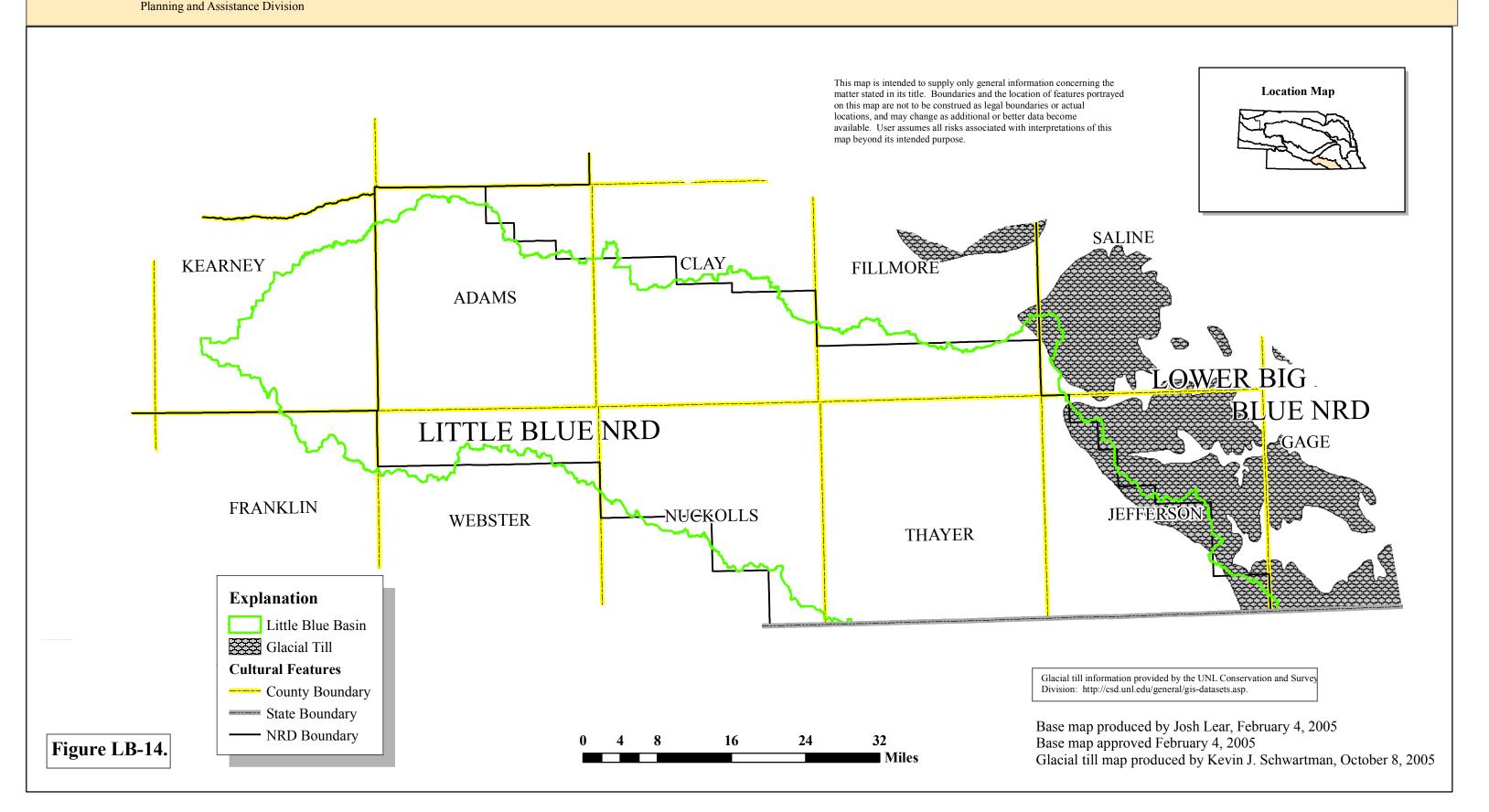


Table LB-1 – Aquifers in unconsolidated surficial deposits, (modified from Keech and Dreeszen, 1959, 1968)

System	Hydrogeologic unit	Character and description	Maximum thickness, in feet	Hydrogeologic characteristics	
Quaternary	Undifferentiated fluvial and terrace deposits, Todd Valley sand.	Clay, silt, sand and fine gravel; underlie valley-side terraces and valley floor of drainage courses. Sand and gravel valley and terrace deposits, mostly along stream valleys.	30	Generally saturated, wells yield water at a moderate rate.	
	Crete Formation, Undifferentiated fluvial, lacustrine and eolian deposits.	Sand and gravel channel-fill deposits. Silt, sand and gravel restricted to broad valleys.	130	Genereally saturated where thick and coarse textured, yields wells at a high rate.	
	Sappa Formation	Stratified deposits of silt, clay sand and gravel.	60	Sand lenses yield water at a slow rate in wells.	
	Grand Island Formation	Stream deposited sand and gravel with a persistent aqueous-eolian deposited silt and clay layer.	200	Yields abundant water to wells.	
	Red Cloud sand and gravel and Holdrege Formation Undifferentiated	Stream deposited sand and gravel with nonpersistant silt and clay, probably of aqueous-eolian origin.	200	Yields abundant water to wells.	

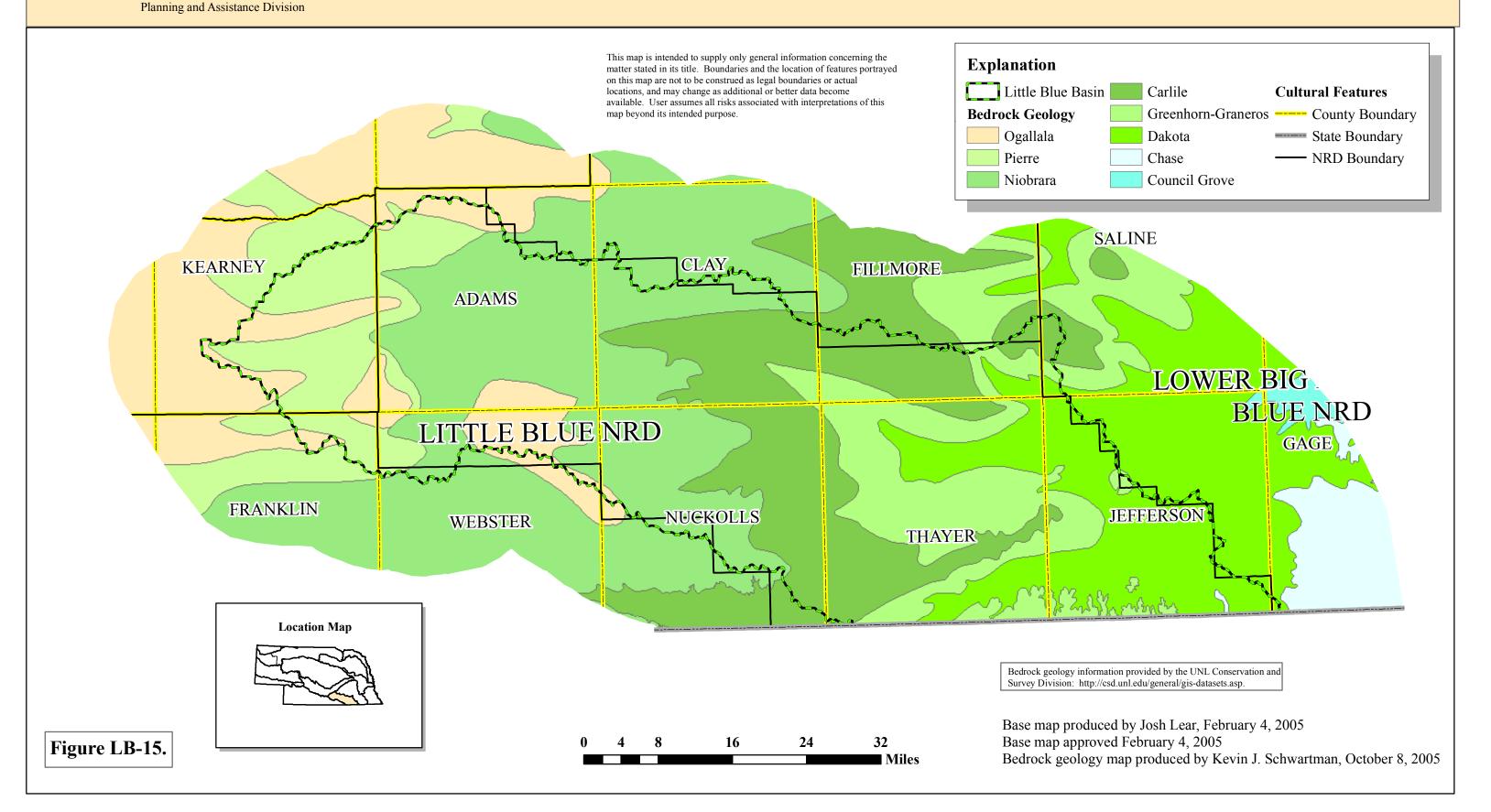
Table LB-2 – Characteristics of bedrock aquifers (modified from Keech and Dreeszen, 1959, 1968; LBNRD, 1995)

System	Hydrogeologic unit	Character and description	Maximum thickness, in feet	Hydrogeologic characteristics	
Tertiary	Ogallala Group	Silt, sandy and clayey silt with lenses of sand and gravels, partly calcareous.	<100	Only used as a secondary aquifer, used mostly for stock and domestic wells.	
Cretaceous	Niobrara Formation	Chalky shale, weathered in parts	380	Yields water to wells at a moderate rate where creviced.	
	Greenhorn- Graneros Formations (Undifferentiated)	The Graneros is non-calaceous plastio shale with thin limestone layer in the upper part. The Greenhorn is limestone to shaley limestone.	100	Not known to be a major source of water to wells, but some stock and domestic wells may get water from joints in the Greenhorn Limestone.	
	Dakota Sandstone	Interbedded clay shale, sandy shale and sandstone.	600	Moderately to highly mineralized water, salinity appears to increas with depth. Sandstone layers yield water at a moderate rate to wells.	
Permian	Undifferentiated limestone and shales	Interbedded limestone and shales.	700	Limestone used as minor aquifers, yields water to wells where secondary porosity has developed.	



### Bedrock Geology LITTLE BLUE RIVER BASIN



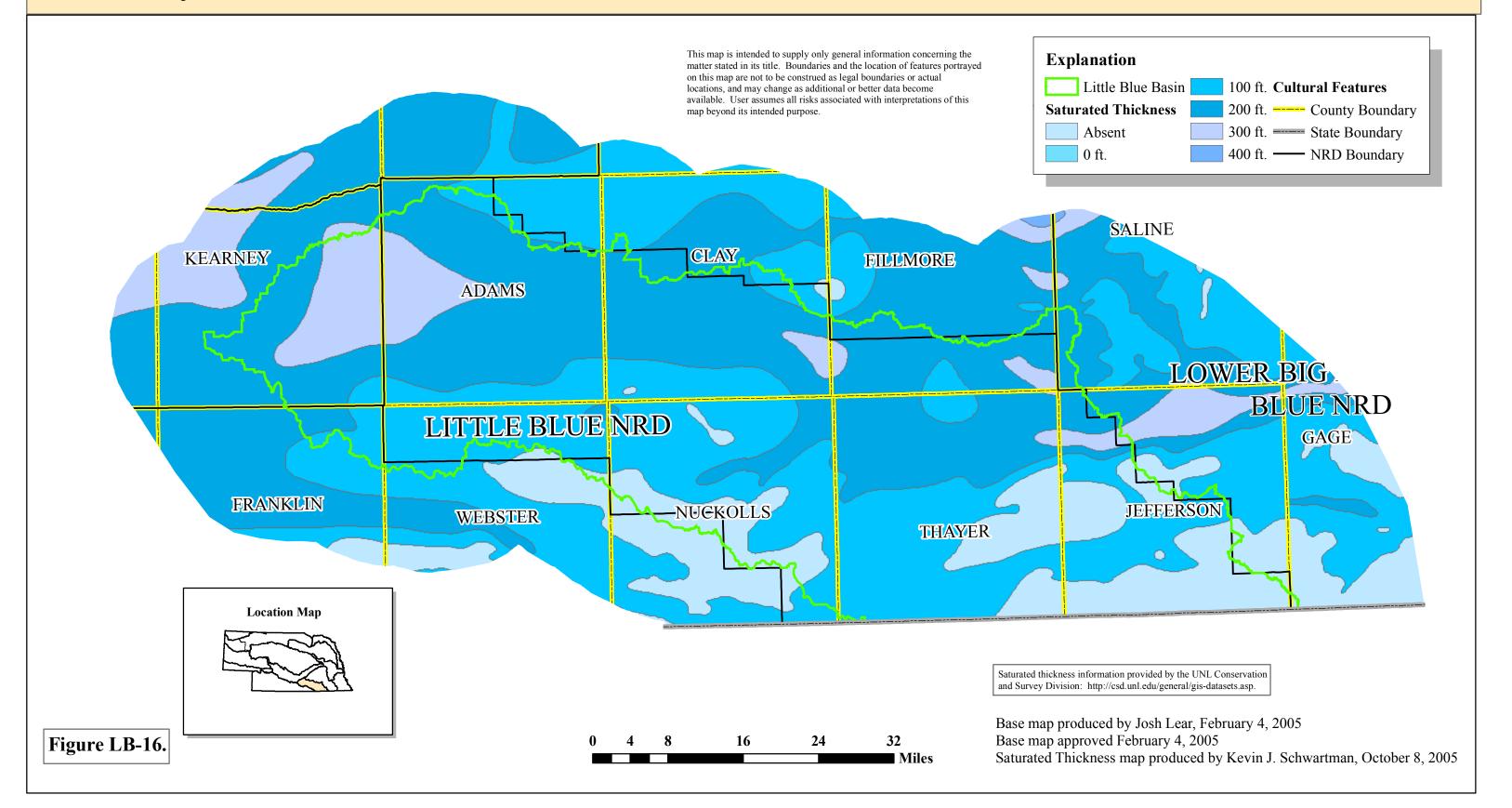




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## Saturated Thickness LITTLE BLUE RIVER BASIN

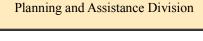


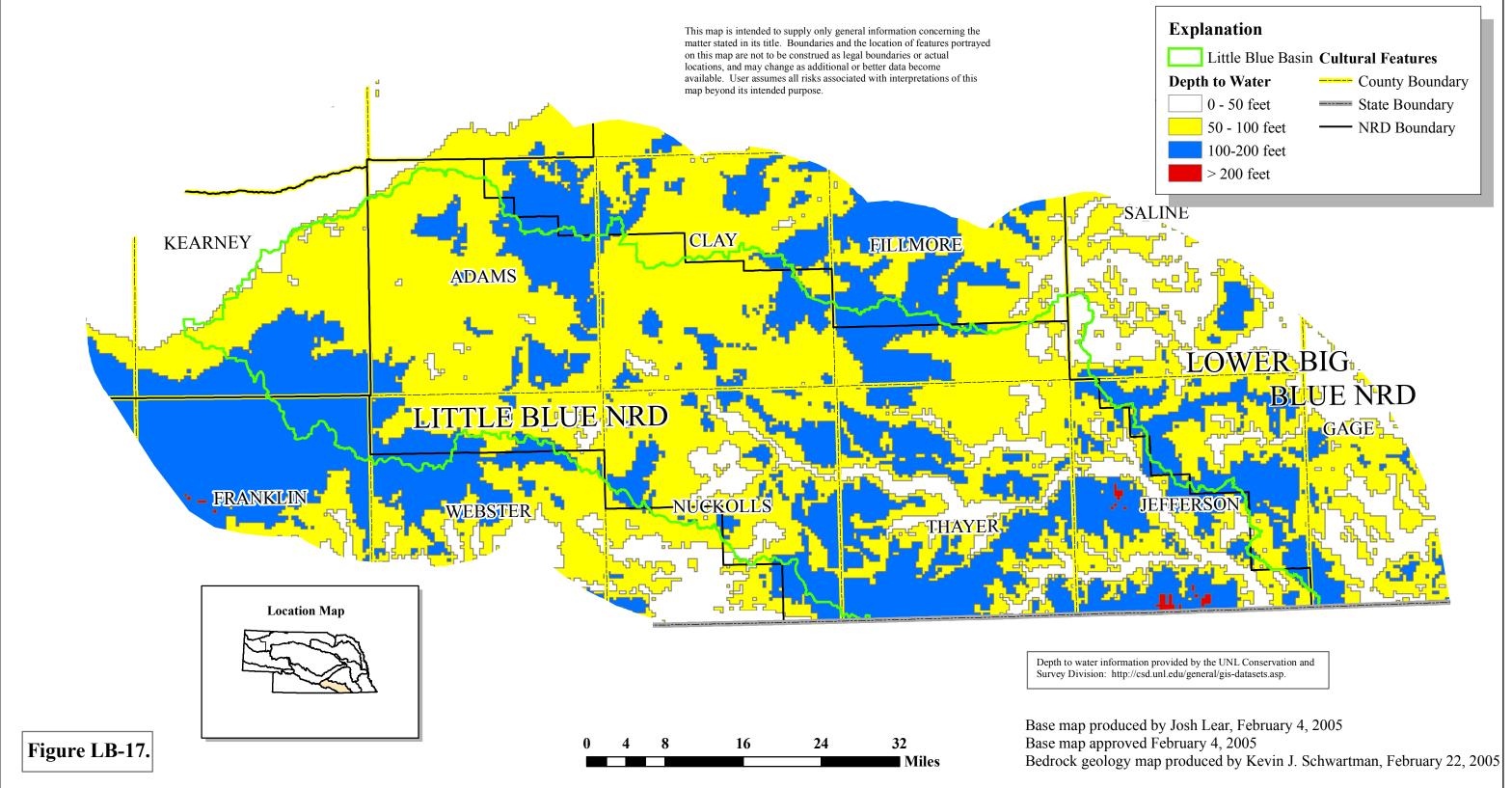




### Depth to Water LITTLE BLUE RIVER BASIN



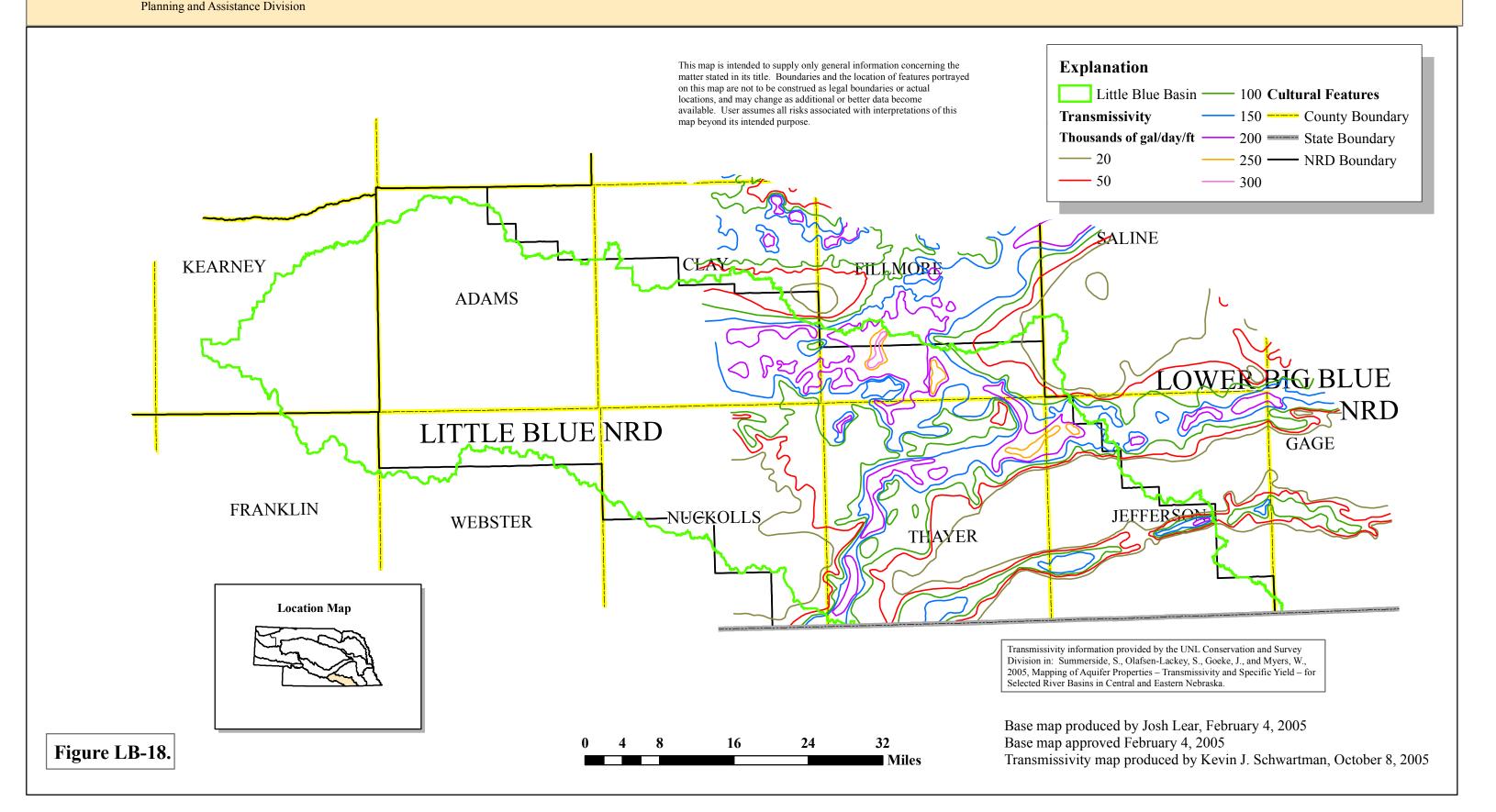






### Transmissivity LITTLE BLUE RIVER BASIN

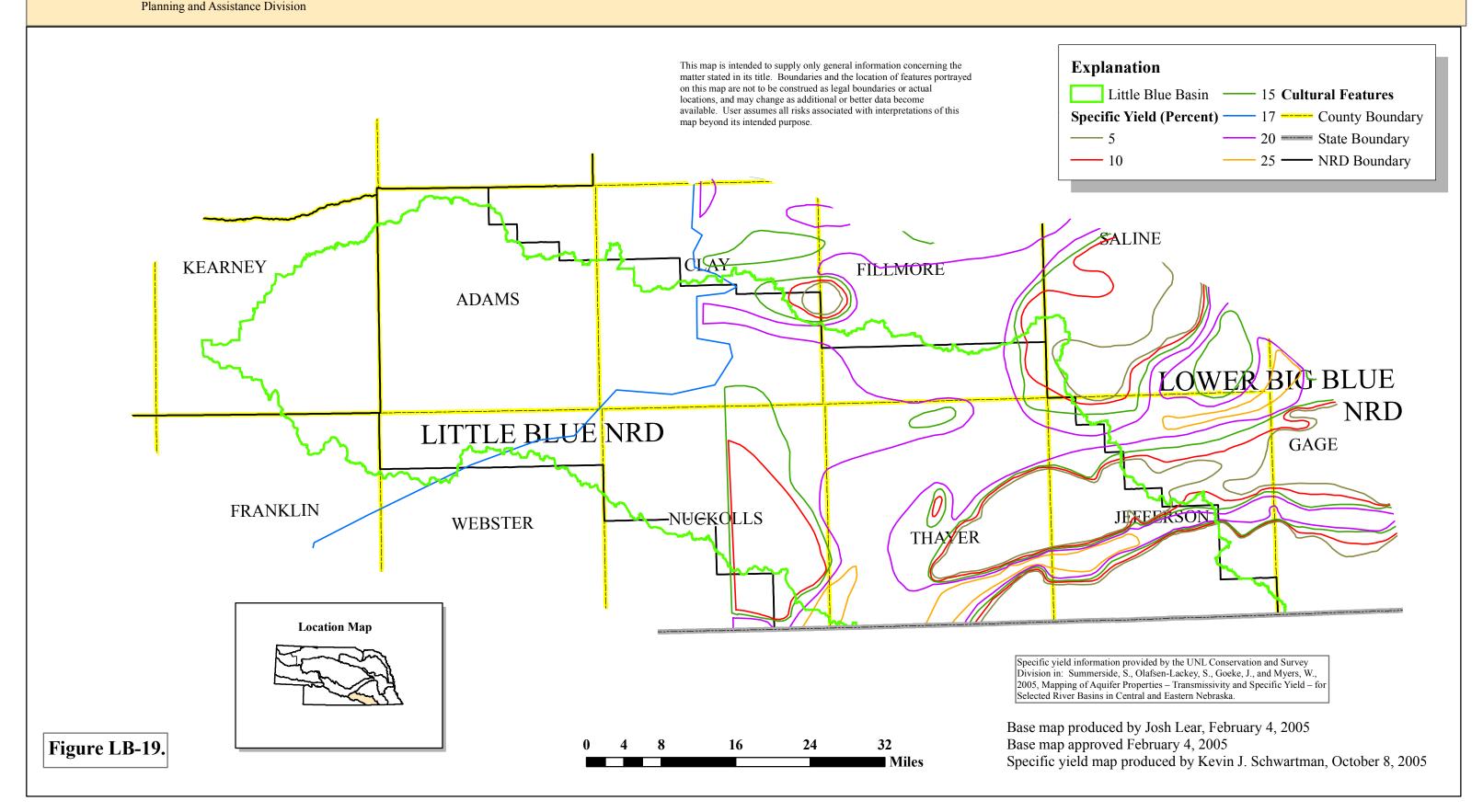






## Specific Yield LITTLE BLUE RIVER BASIN



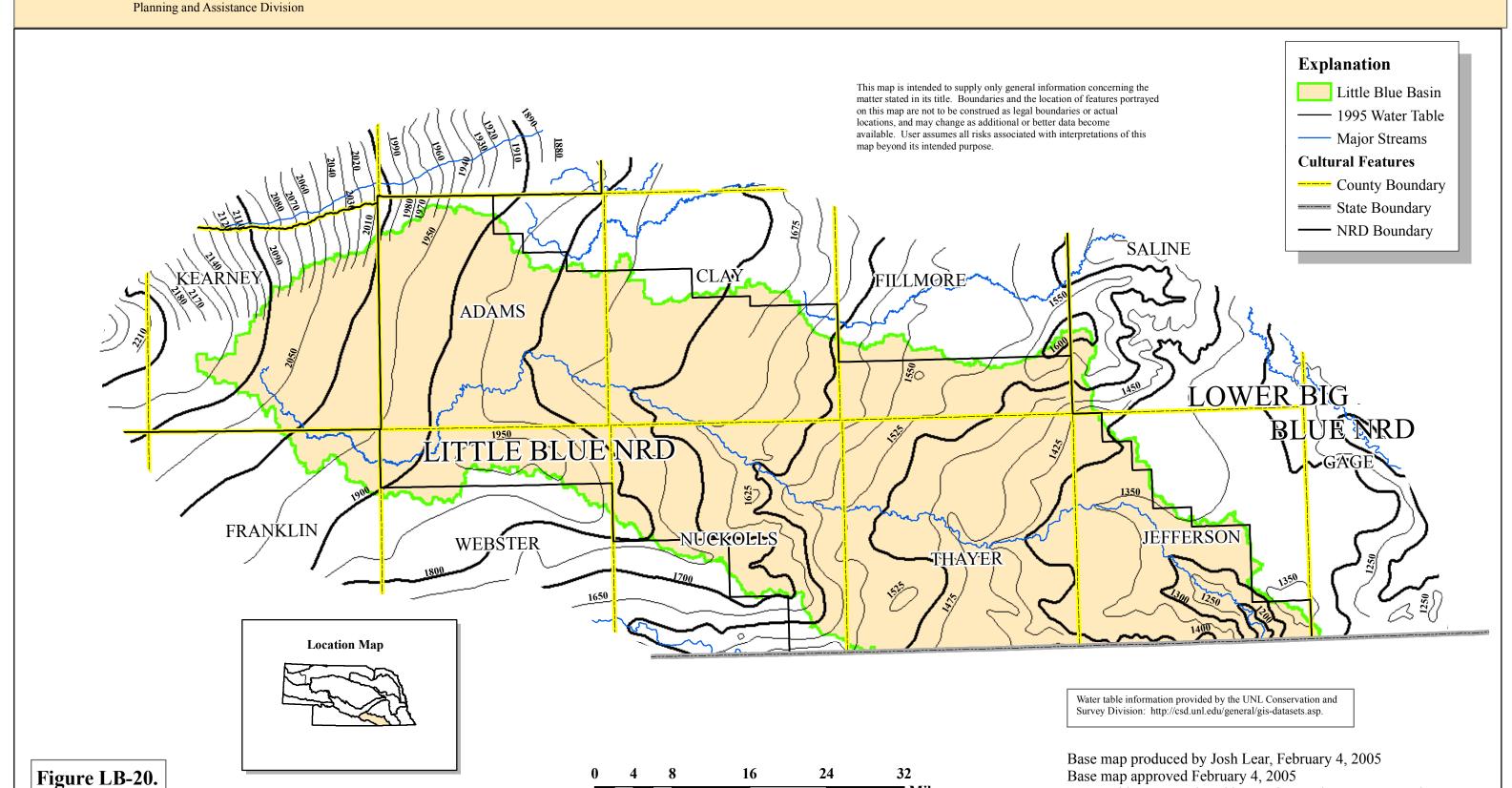




# 1995 Ground Water Table LITTLE BLUE RIVER BASIN



Water table map produced by Kevin J. Schwartman, October 8, 2005



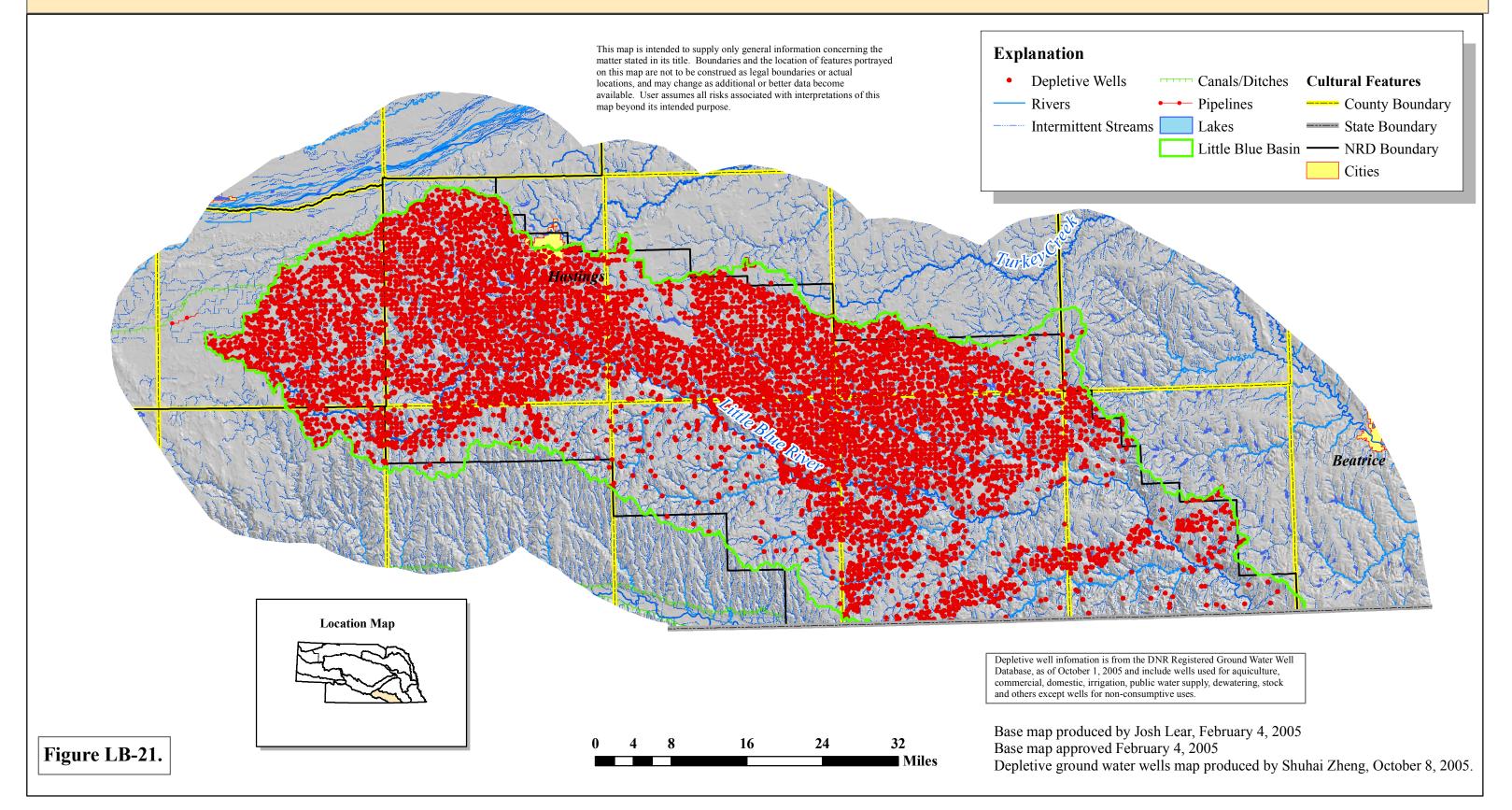
Miles



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# **Depletive Ground Water Wells LITTLE BLUE RIVER BASIN**

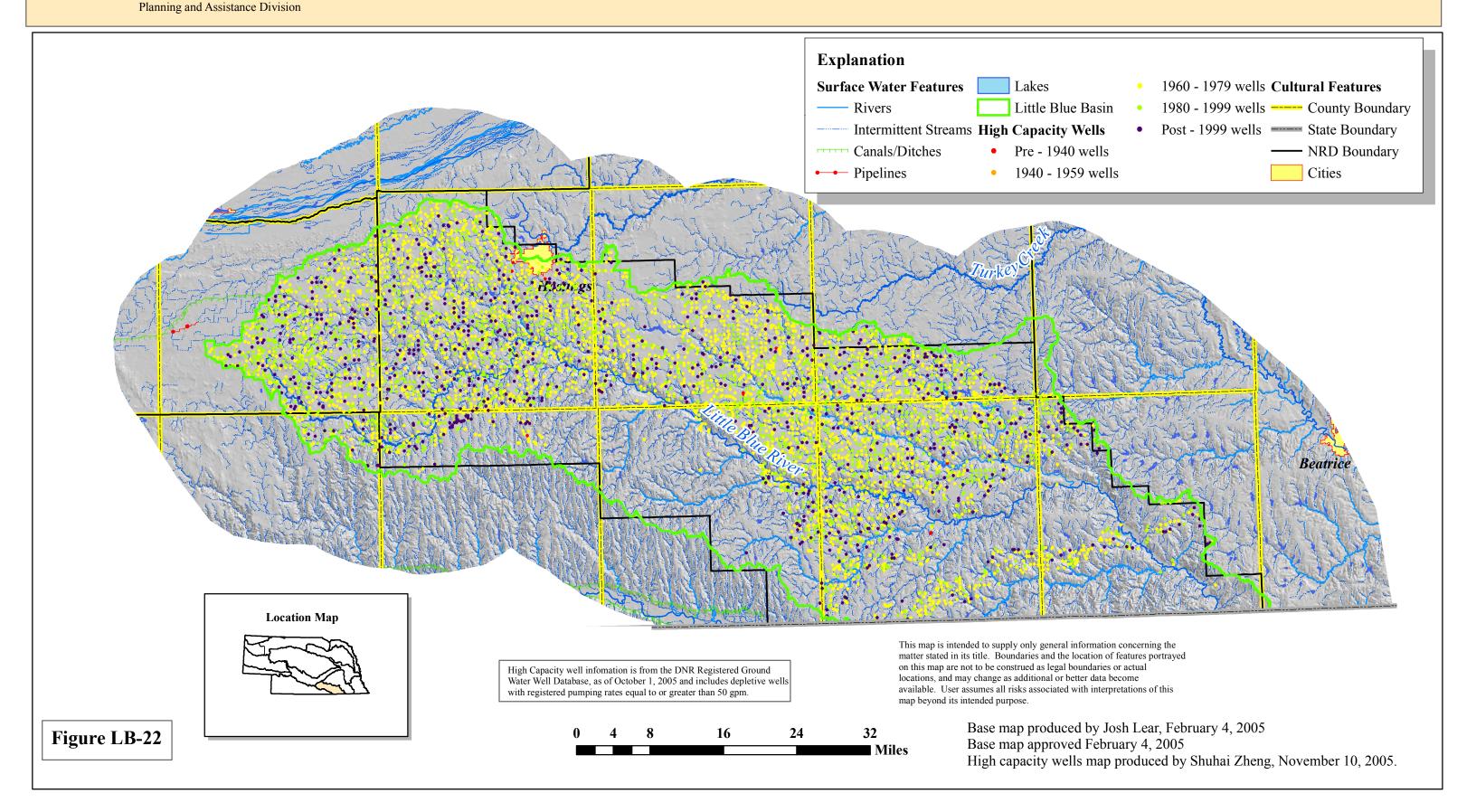


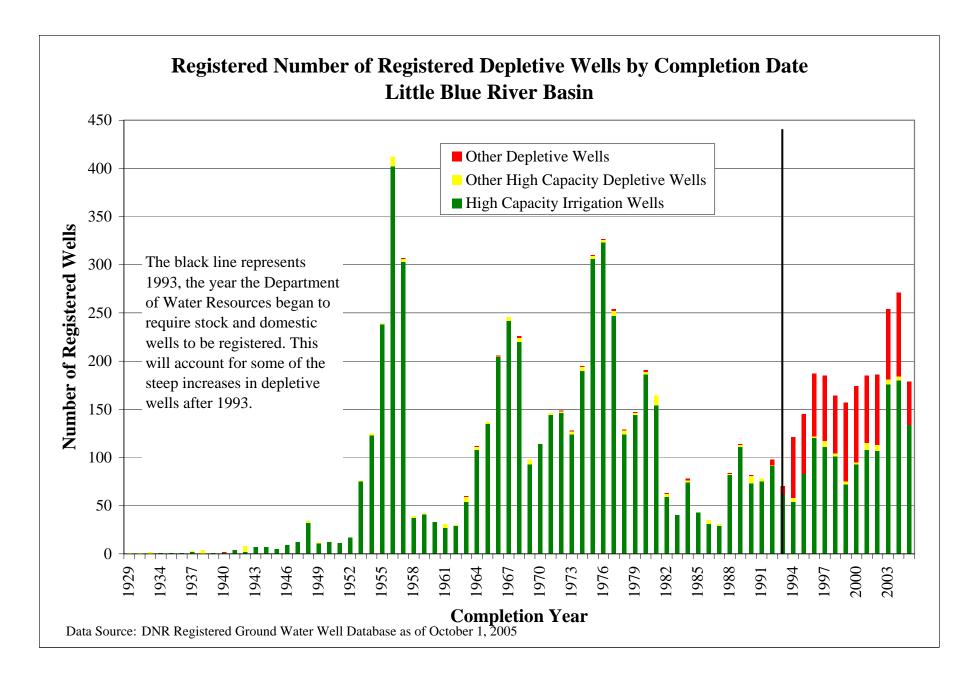




## High Capacity Wells by Completion Years LITTLE BLUE RIVER BASIN







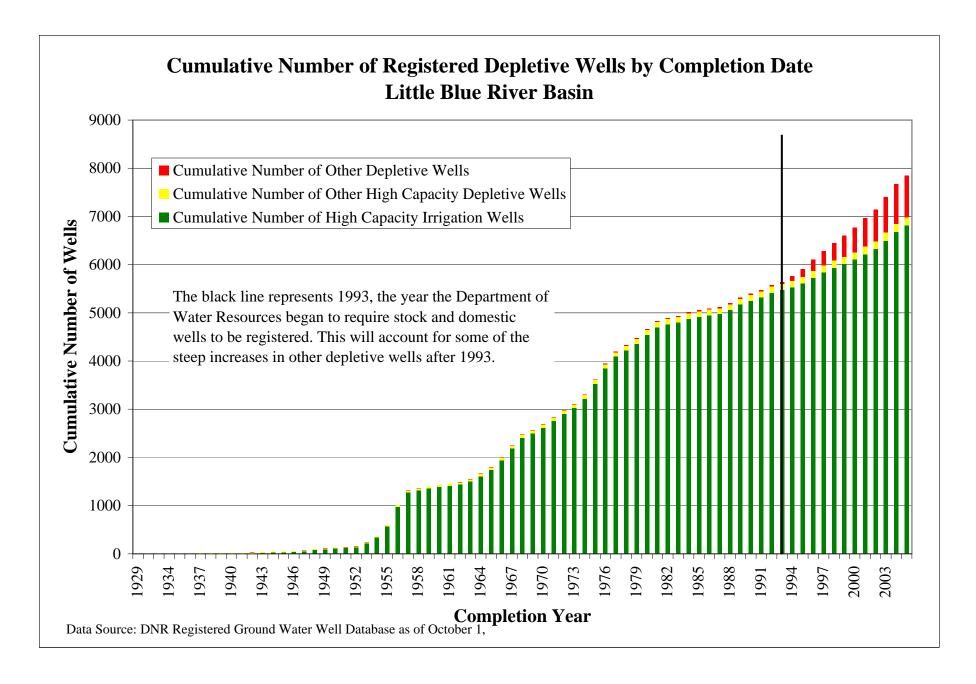


Table LB-3 Average Irrigated Acreage 1950-2003 for Counties Fully or Partially in the Little Blue River Basin

	Estimated Average Irrigated Acreage by County								
<b>County Name</b>	Percent of County in	1950-1959	1960-1969	1970-1979	1980-1989	1990-1999	2000-2003		
	Little Blue Basin								
Adams	82	22264	61615	111238	152700	187060	207475		
Clay	55	29905	78883	130291	170860	184410	190275		
Fillmore	29	23749	69542	125433	164980	192560	203450		
Franklin	7	10369	27791	52251	72030	84870	94625		
Gage	<1	2719	15576	36687	45190	49700	57275		
Jefferson	57	2457	13277	34948	52920	58380	67850		
Kearney	45	40407	72317	128504	165480	190820	207250		
Nuckolls	66	11755	26306	40191	51050	55820	62525		
Saline	3	6762	27831	56187	70740	80140	89875		
Thayer	100	12316	41839	75456	102060	121410	134225		
Webster	25	4216	11142	25024	35490	45540	54200		
Total		166919	446119	816210	1083500	1250710	1369025		
% Change from			167.27%	82.96%	32.75%	15.43%	9.46%		
Previous 10									
Years									

<sup>\*</sup> The percentage is the percentage of the county area which is in the Little Blue Basin. It does not necessarily represent the percentage of irrigated county acreage in the Little Blue River Basin.

Data Source: <a href="http://www.usda.gov/nass/">http://www.usda.gov/nass/</a>, National Agricultural Statistics Service, U.S. Department of Agriculture

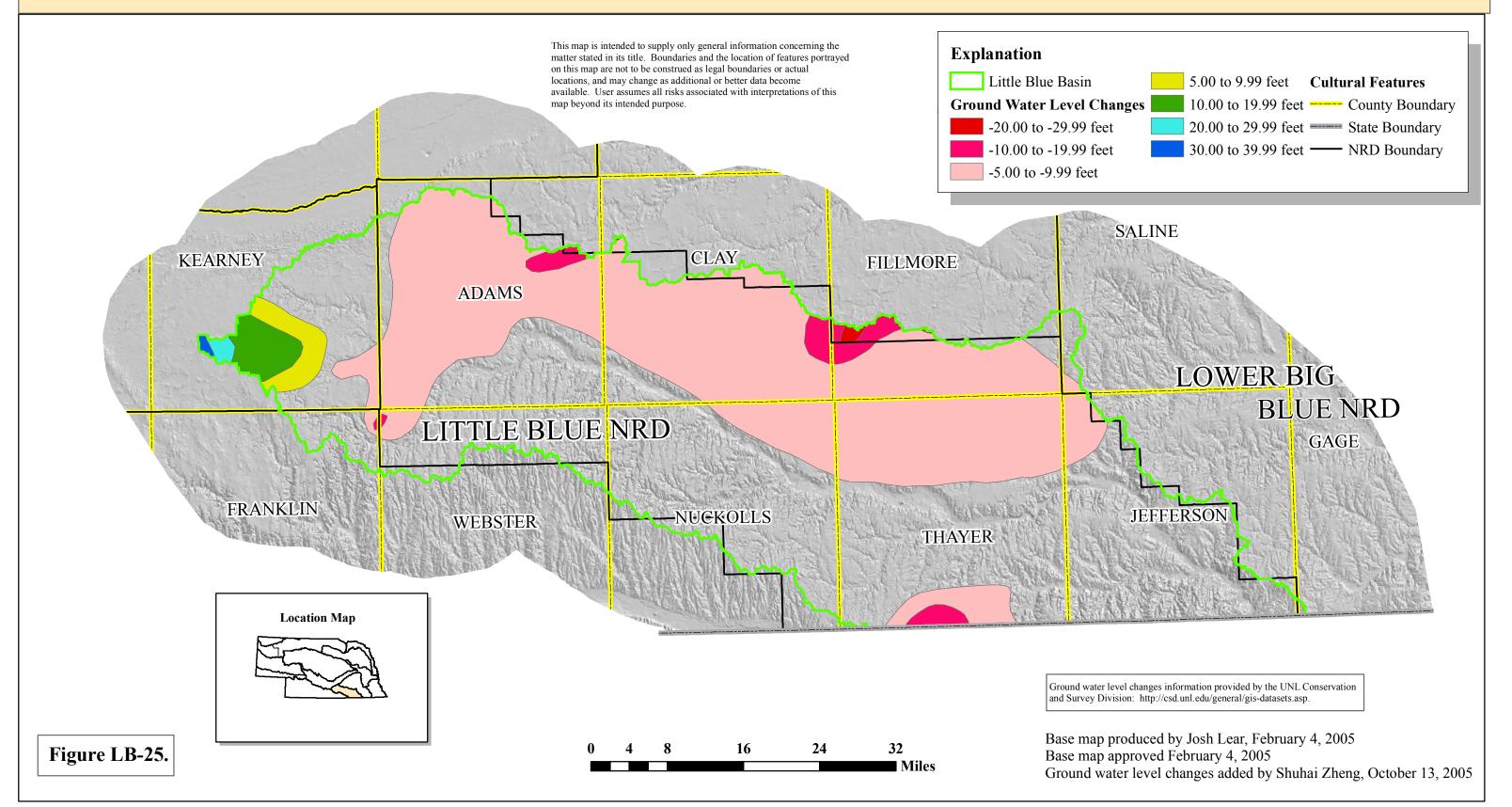


### **Ground Water Level Changes Pre-development to Spring 2005**



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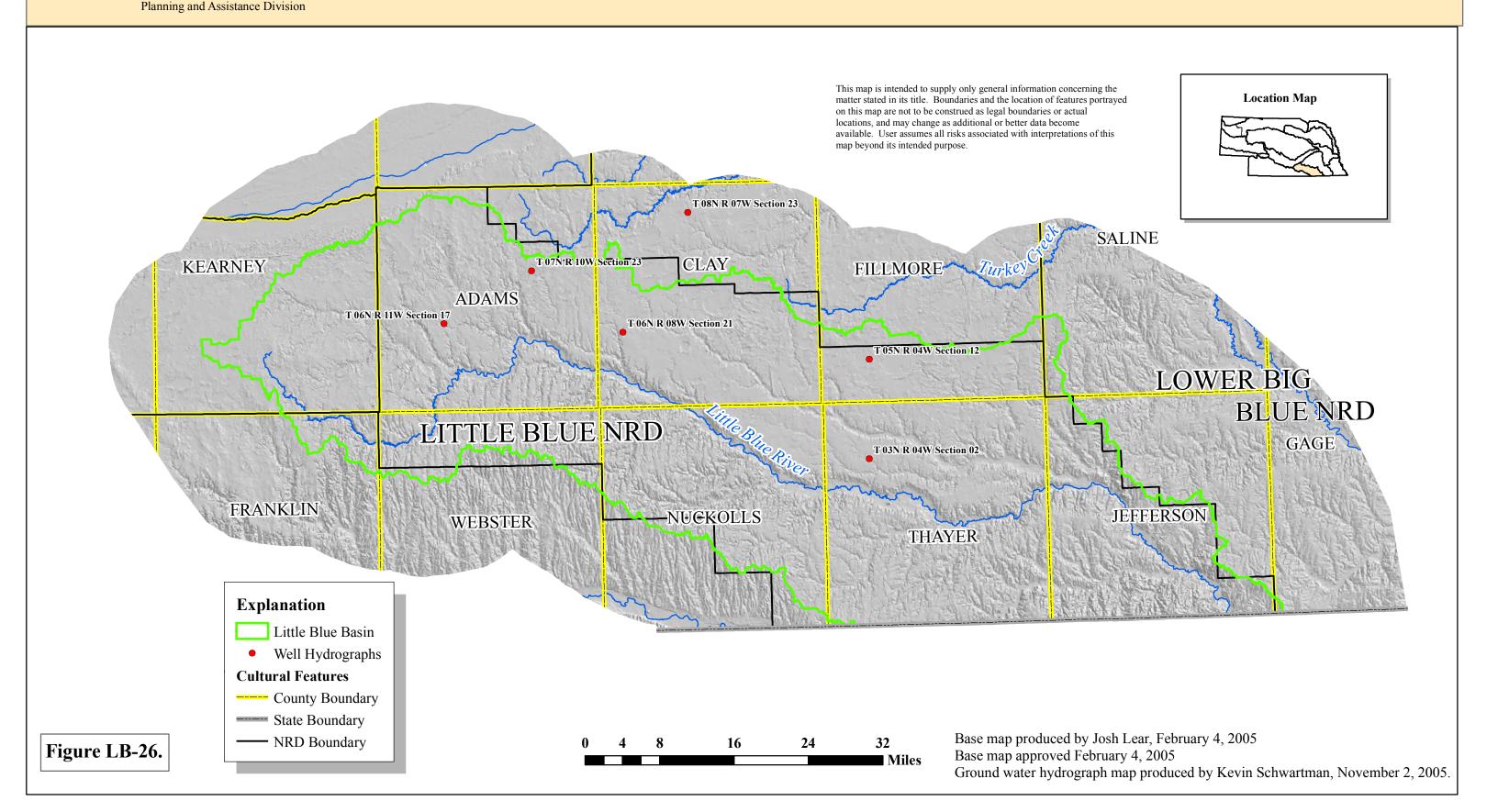
### LITTLE BLUE RIVER BASIN



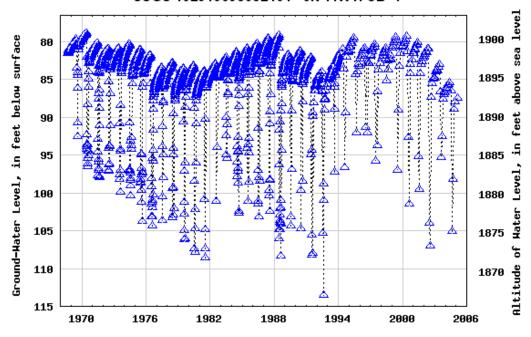


## Ground Water Hydrograph Locations LITTLE BLUE RIVER BASIN





#### USGS 402910098352101 6N 11W17CB 1



**Provisional Data Subject to Revision** 

Adams County, Nebraska
Hydrologic Unit Code 10270206
Latitude 40°29'10", Longitude 98°35'21" NAD27
Land-surface elevation 1,980. feet above sea level NGVD29
The depth of the well is 210 feet below land surface.
This well is completed in the QUATERNARY SAND AND
GRAVEL DEPOSITS (112SDGV) local aquifer.

Figure LB-27 (T 06N R 01W Section 17)

#### 

**Provisional Data Subject to Revision** 

1976

1988

2000

Adams County, Nebraska
Hydrologic Unit Code 10270206
Latitude 40°34'03", Longitude 98°24'40" NAD27
Land-surface elevation 1,927. feet above sea level NGVD29
The depth of the well is 155 feet below land surface.
This well is completed in the QUATERNARY SAND AND
GRAVEL DEPOSITS (112SDGV) local aquifer.

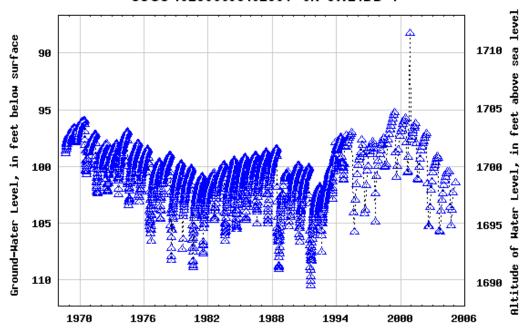
1964

Figure LB-28 (T 07N R 10W Section 23)

1952

1940

#### USGS 402806098132501 6N 8W21DD 1



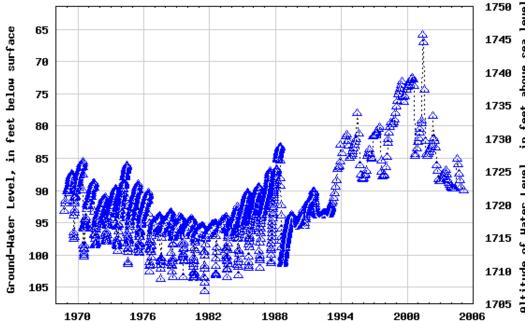
**Provisional Data Subject to Revision** 

Clay County, Nebraska
Hydrologic Unit Code 10270206
Latitude 40°28'06", Longitude 98°13'25" NAD27
Land-surface elevation 1,800. feet above sea level NGVD29
The depth of the well is 205 feet below land surface.
This well is completed in the QUATERNARY SAND AND
GRAVEL DEPOSITS (112SDGV) local aquifer.

Figure LB-29 (T 06N R 08W Section 21)

### **™USGS**

### USGS 403910098051401 8N 7W23BB 1



**Provisional Data Subject to Revision** 

Clay County, Nebraska
Hydrologic Unit Code 10270203
Latitude 40°39'10", Longitude 98°05'14" NAD27
Land-surface elevation 1,812. feet above sea level NGVD29
The depth of the well is 206 feet below land surface.
This well is completed in the This well is completed in the QUATERNARY SAND AND GRAVEL DEPOSITS
(112SDGV) local aquifer.

Figure LB-30 (T 08N R 07W Section 23)

#### USGS 402504097432201 5N 4W12BDC 1 Ground-Water Level, in feet below surface

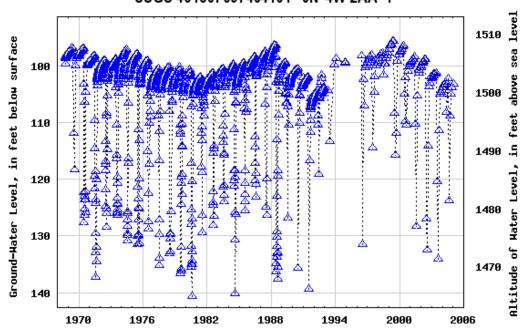
**Provisional Data Subject to Revision** 

Fillmore County, Nebraska
Hydrologic Unit Code 10270206
Latitude 40°25'04", Longitude 97°43'22" NAD27
Land-surface elevation 1,651. feet above sea level NGVD29
The depth of the well is 260 feet below land surface.
This well is completed in the QUATERNARY SAND AND

Figure LB-31 (T 05N R 04W Section 12)

GRAVEL DEPOSITS (112SDGV) local aquifer.

#### USGS 401537097434101 3N 4W 2AA 1



**Provisional Data Subject to Revision** 

Thayer County, Nebraska
Hydrologic Unit Code 10270206
Latitude 40°15'37", Longitude 97°43'41" NAD27
Land-surface elevation 1,605.00 feet above sea level NGVD29
The depth of the well is 195 feet below land surface.
This well is completed in the QUATERNARY SAND AND
GRAVEL DEPOSITS (112SDGV) local aquifer.

Figure LB-32 (T 03N R 04W Section 02)

Figure LB-33. Annual Flows, Big Sandy Creek at Alexandria.

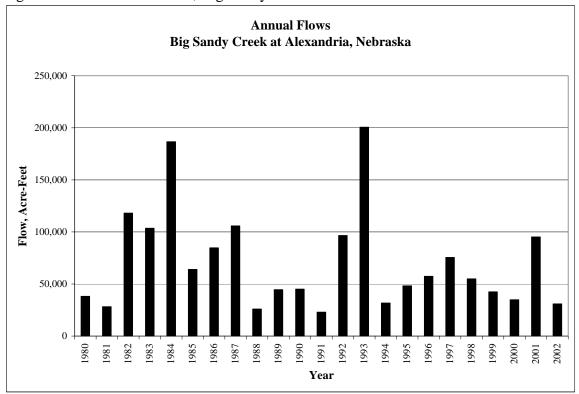


Figure LB-34. Annual Flows, Little Blue River at Deweese.

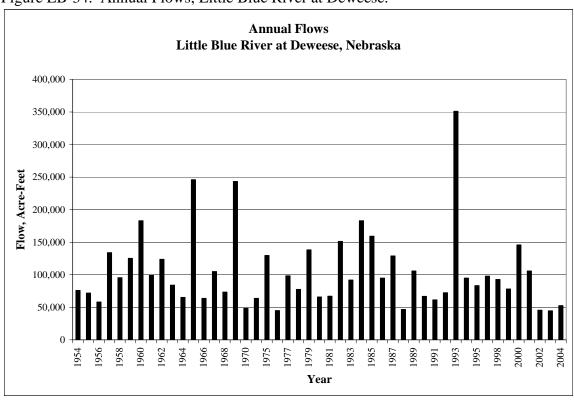


Figure LB-35. Annual Flows, Little Blue River at Alexandria.

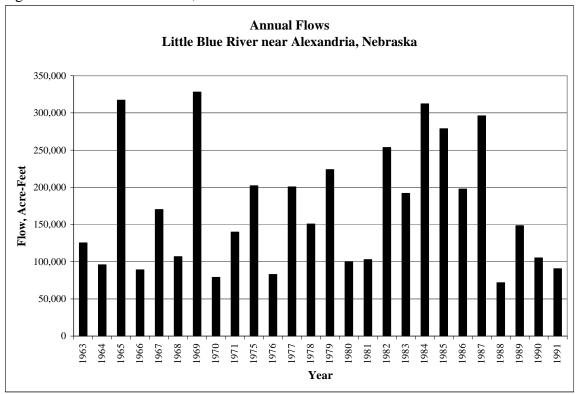


Figure LB-36. Annual Flows, Little Blue River near Fairbury.

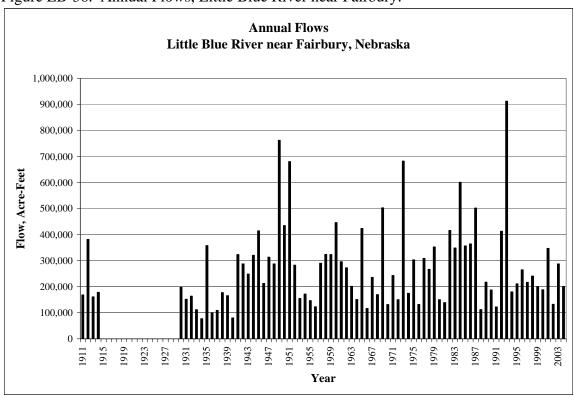
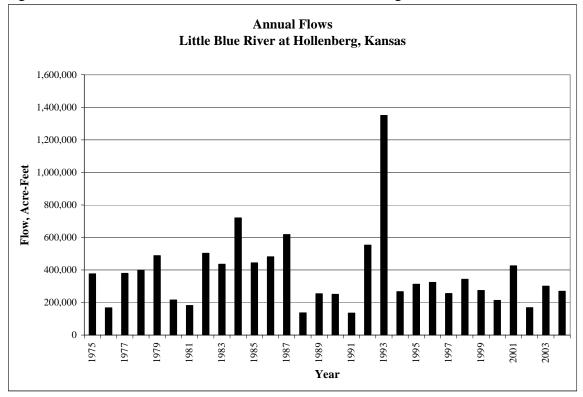


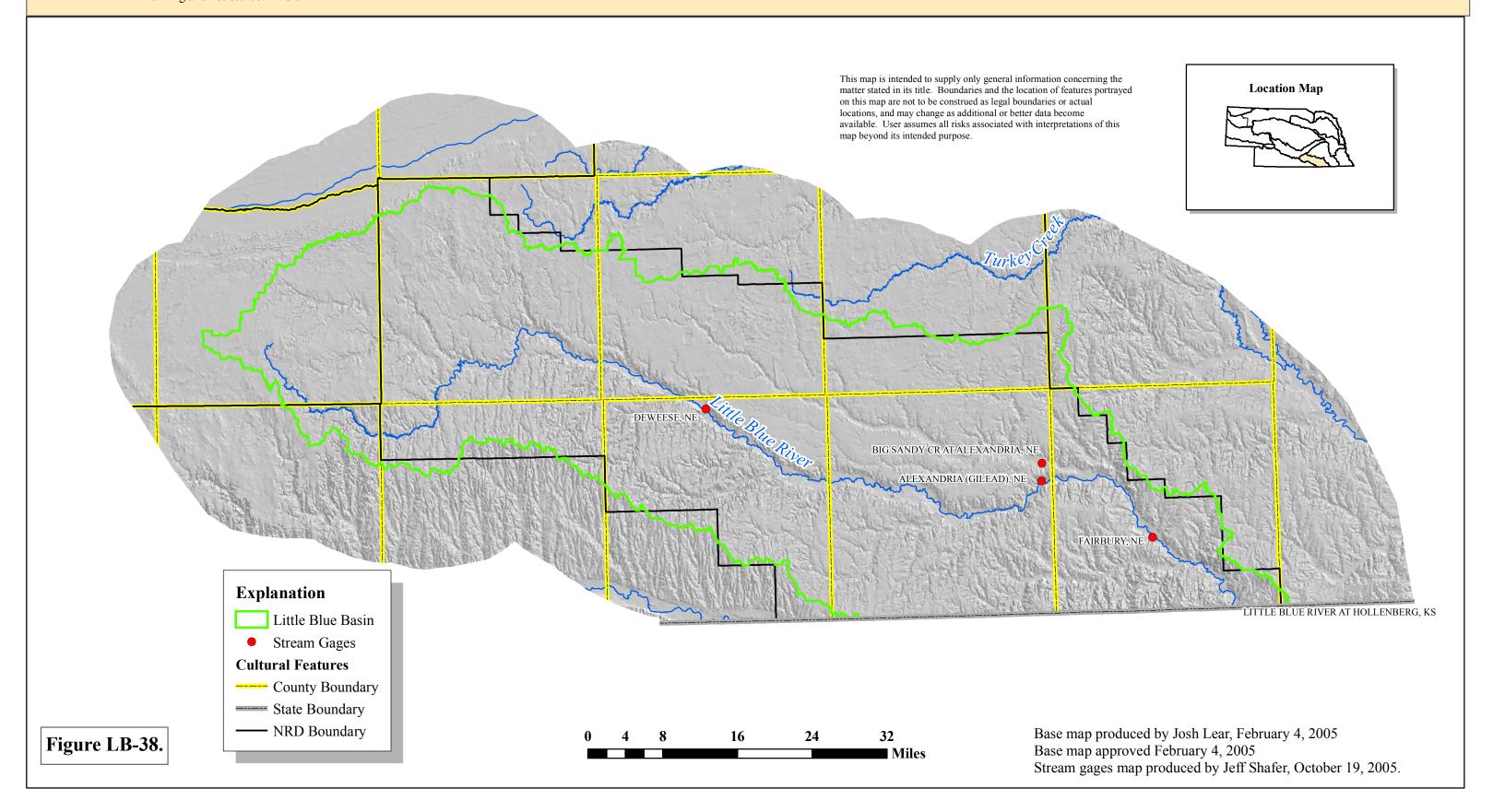
Figure LB-37. Annual Flows, Little Blue River at Hollenberg, Kansas.





# Stream Gages LITTLE BLUE RIVER BASIN





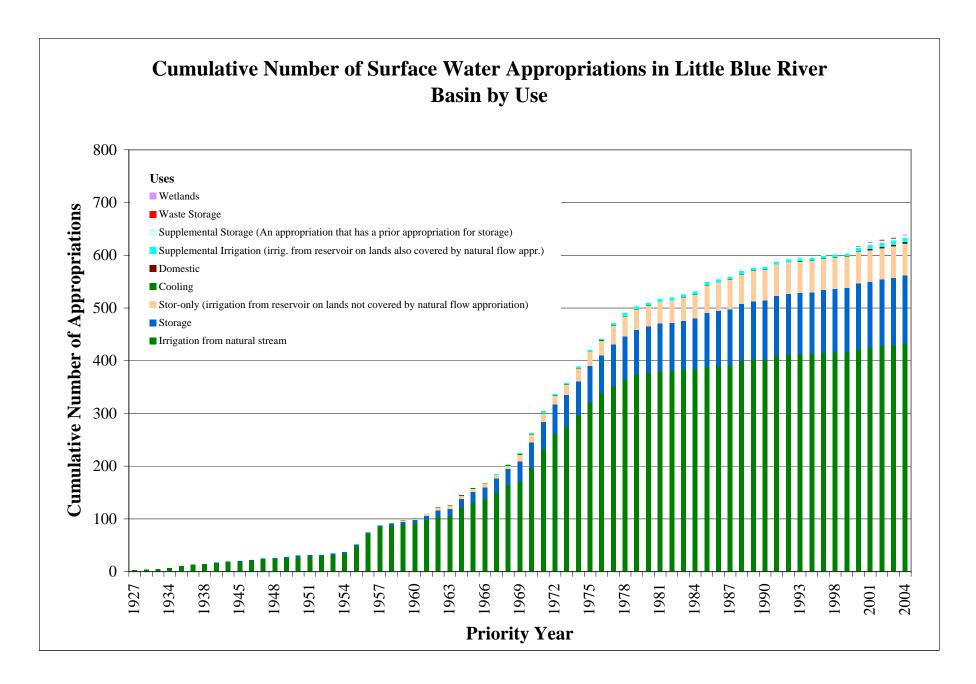


Figure LB-39 11/23/2005 by Shuhai Zheng

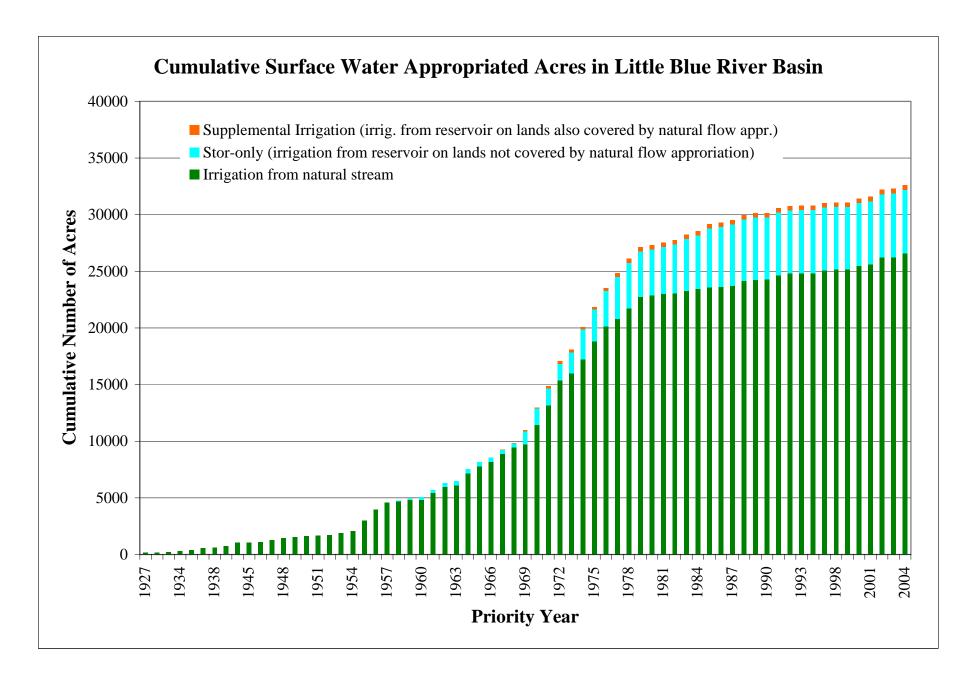


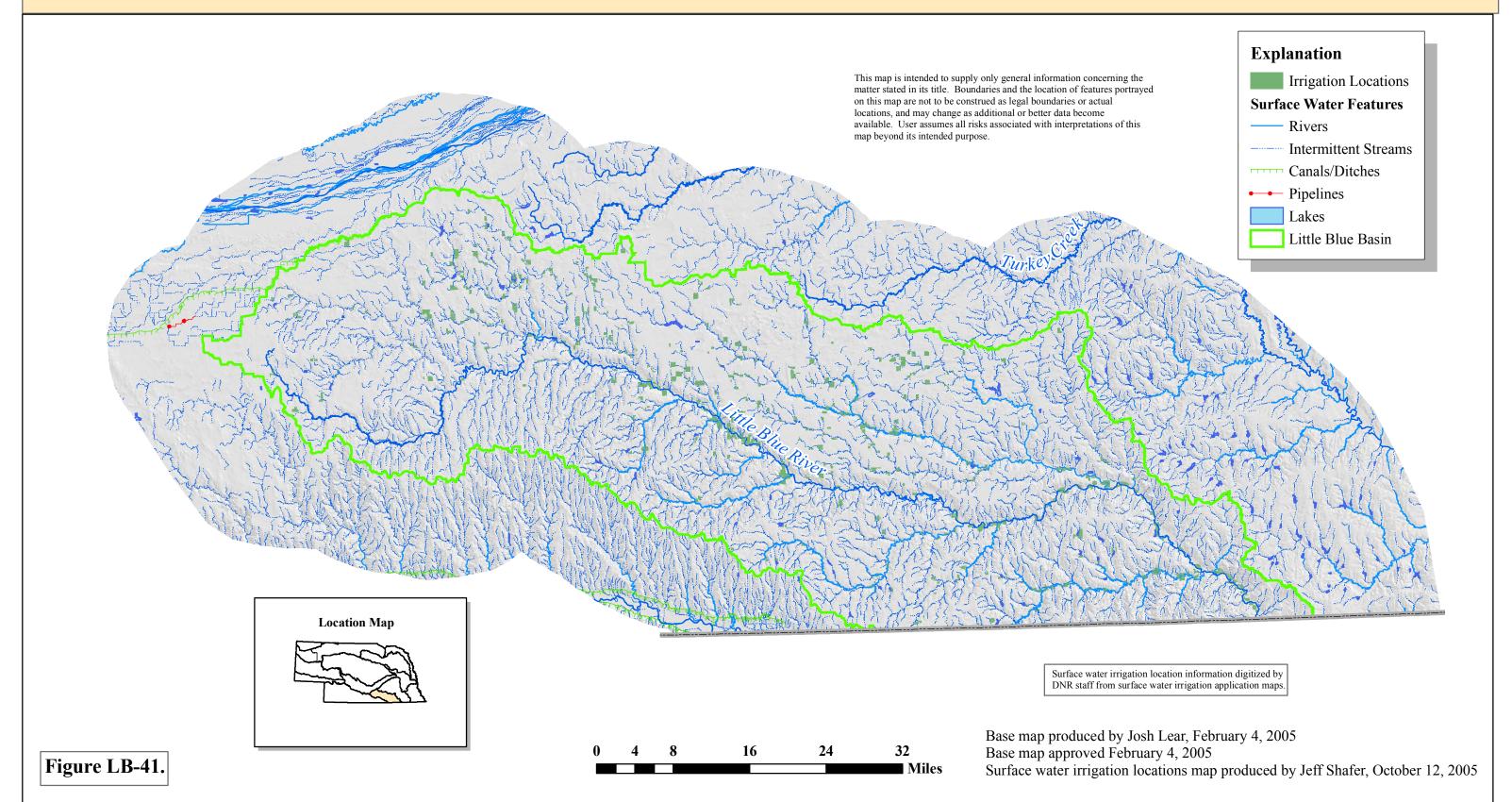
Figure LB-40 11/23/2005 by Shuhai Zheng



Planning and Assistance Division

# **Surface Water Irrigation Locations LITTLE BLUE RIVER BASIN**





#### - DRAFT - NOT FINAL -



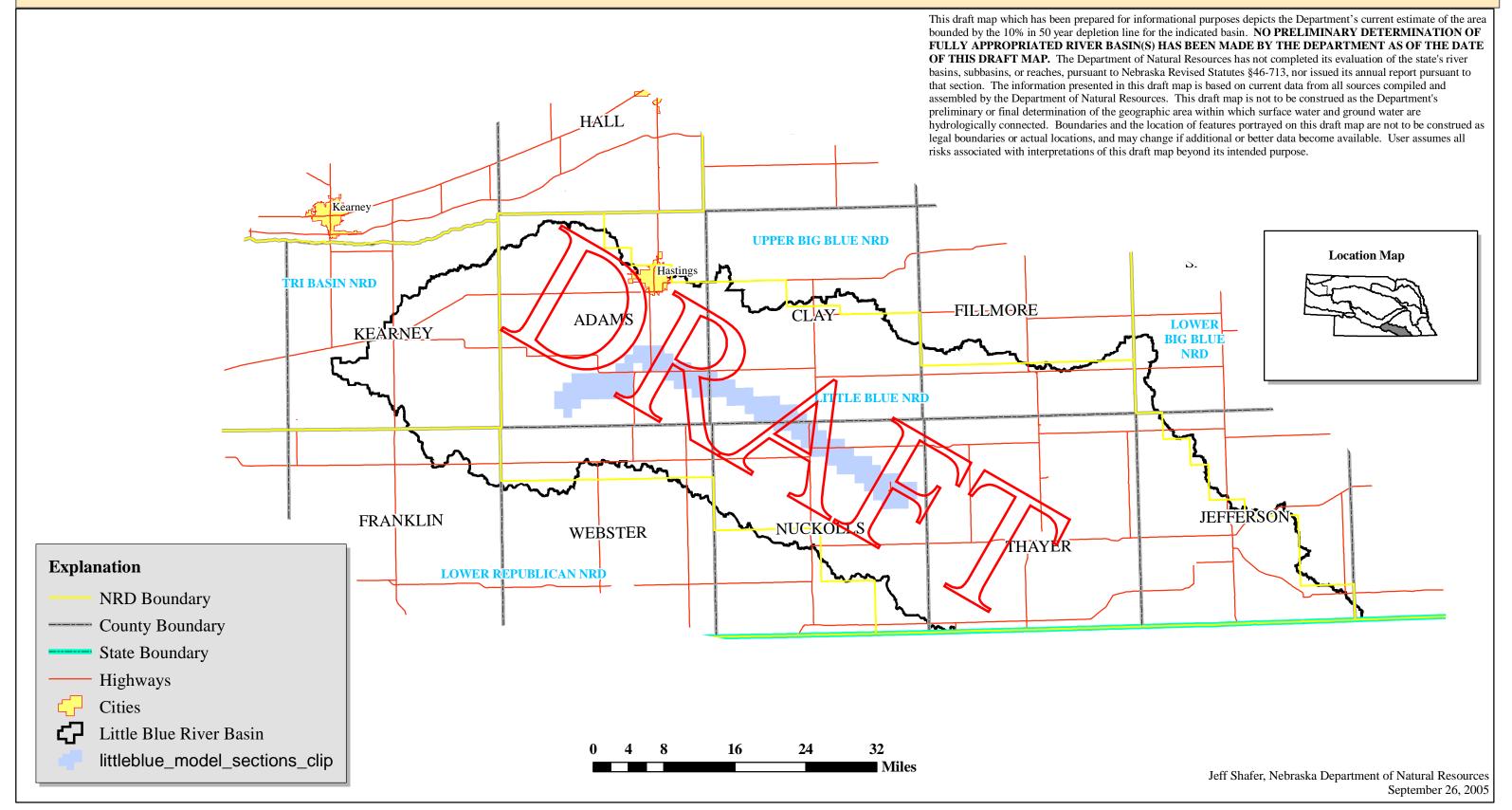
### DRAFT MAP OF GEOGRAPHIC AREA WITHIN WHICH SURFACE WATER AND GROUND WATER ARE HYDROLOGICALLY CONNECTED FOR PURPOSES OF THE PRELIMINARY DETERMINATION OF FULLY APPROPRIATED - DRAFT - NOT FINAL -

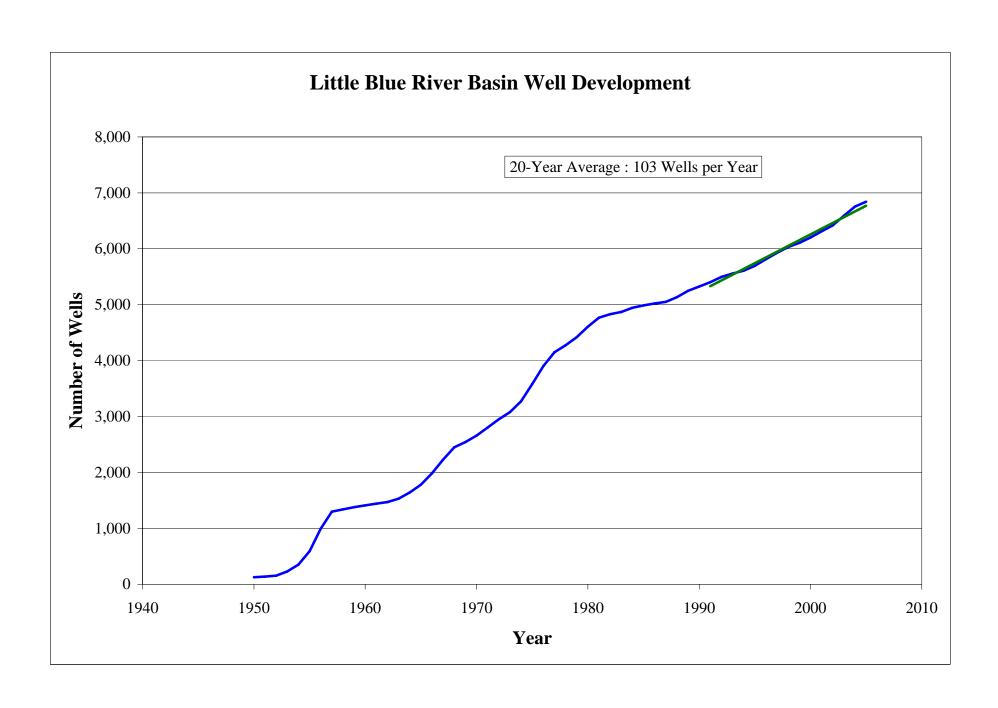
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### NEBRASKA DEPARTMENT OF NATURAL RESOURCES 9/26/2005

LITTLE BLUE RIVER BASIN

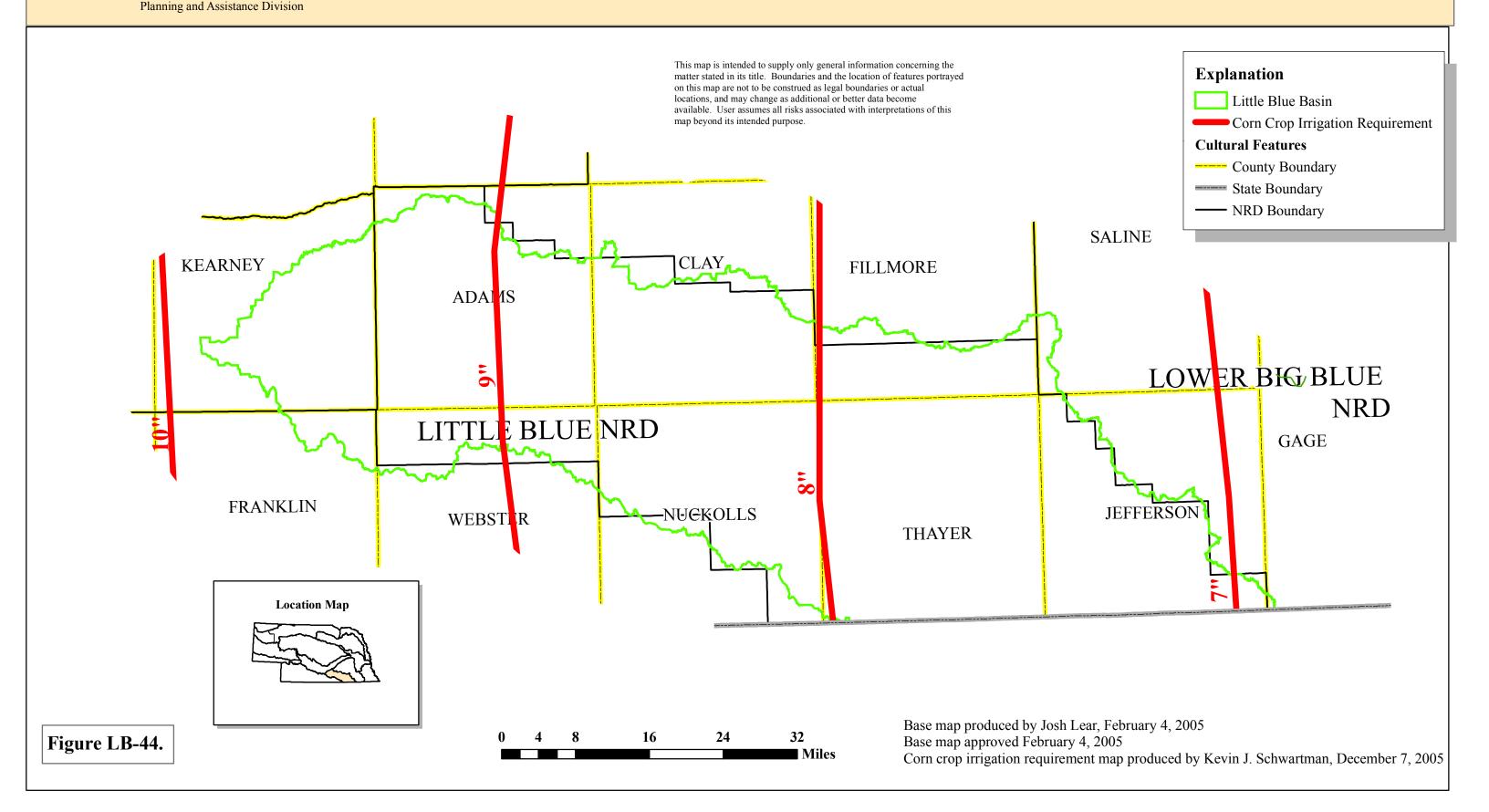






## Corn Crop Irrigation Requirement LITTLE BLUE RIVER BASIN





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Citation		
Citation	Boohar, J.A., and Provaznik, Mary Kay, 1996, Peak flows for the period of record for current and discontinued streamflow stations in Nebraska: U.S. Geological Survey Open-File Report 96-101, 518 p.	
Citation	Carlson, M.P., 1993, Geology, Geologic Time and Nebraska: Conservation and Survey Division Educational Circular No. 10, August 1993, 60 pages.	
Citation	Channel, C.B., 1901, Third Biennial Report of the State Engineer, Secretary of the State Board of Irrigaion to the Governor of Nebraska 1899 abd 1900: Hunter Woodruff Printing Co. Lincoln, Nebraska, 220 pages.	
Citation	Chen, H.H. and Druliner, A.D., 1987, Nonpoint-source agricultural chemicals in ground water in Nebraska—Preliminary results for six areas of the High Plains aquifer: U.S. Geological Survey Water-Resources Investigations Report 86-4338, 68 p.	
Citation	Chen, X.H., 2004, Streambed Hydraulic Conductivity for Rivers in South-Central Nebraska, Journal of the American Water Resources Association (JAWRA) 40(3):561-573.	

Citation	Diffendal, R.F., 1987, Geology of Rock Creek Station State Historical Park. Lincoln: Conservation and Survey Division, IANR, University of Nebraska, [1987?]
Citation	Dreeszen, V.H., 1950, A subsurface study of the pleistoncene deposits in Kearney County and adjoining parts of Adams, Franklin, and Webster Counties, Thesis (M.S.)University of Nebraska (Lincoln campus)-1950.
Citation	Druliner, A.D., Chen, H.H., and McGrath, T.S., 1996, Relations of nonpoint-source nitrate and atrazine concentrations in the High Plains aquifer to selected explanatory variables in six Nebraska study areas: U.S. Geological Survey Water-Resources Investigations Report 954202, 51 p.
Citation	Dugan, J. T., 1984, Hydrologic characteristics of Nebraska soils: U.S. Geological Survey Water-Supply Paper 2222, 19 p., 12 pls.
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Citation	Ellis, M.J., 1981, Analysis of stream-aquifer system interrelationships in the Big Blue and Little Blue River Basins in Gage and Jefferson Counties, Nebraska: U.S. Geological Survey Water-Resources Investigations Report 81-29, 49 p.
Citation	Ellis, M.J., Engberg, R.A., Kastner, W.M., and Steele, E.K., Jr., 1985, Nebraska ground-water resources, in National Water Summary 1984-hydrologic events, selected water-quality trends, and ground-water resources: U.S. Geological Survey Water-Supply Paper 2275, p. 291-296.

Citation	Emery, P.A., 1964, Basin-Data Report Saline County, Nebraska: Prepared cooperatively by the U.S. Geological Survey and the University of Nebraska Conservation and Survey Division, Nebraska Water Survey Paper Number 15, July 1964, 29 pages.
Citation	Emery, P.A., 1965, Effect of ground-water pumping on streamflow and ground-water levels, Blue River Basin, Nebraska, Lincoln, Neb.: U.S. Dept. of the Interior, Geological Survey Open-File Report, May 1965, 11 pages.
Citation	Emery, P. A. 1965. Effect of Ground Water Pumping on Streamflow and Ground Water Levels, Blue River Basin, Nebraska (OFR-0).
Citation	Emery, P. A., 1966 (RS-1082). Use of Analog Model to Predict Streamflow Depletion, Big and Little Blue River Basin, Nebraska. Ground Water 4(4): 7 pp. October 1966.
Citation	Emery, P.A., 1966, Geohydrology of Saline County, Nebraska: U.S. Geological Survey Hydrologic Atlas HA-216.
Citation	Fischer, B.C., Kollasch, K.M., and McGuire, V.L., 2000, Digital data set of water-level changes in the High Plains aquifer in parts of Colorado, Kansas, Nebraska, New Mexico, Oklahoma, South Dakota, Texas, and Wyoming, 1980 to 1997: U.S. Geological Survey Open-File Report 00-96, (http://water.usgs.gov/lookup/getspatial?OFR0096).
Citation	Hassan, K.M., 1998, Environmental changes within the last 5,000 years from geochemical and stable isotopic compositions in sediment cores from Swan Lake, Nebraska, USA, Thesis (Ph.D.)University of NebraskaLincoln, 1998.
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Heimes, F.J., and Luckey, R.R., 1980, Evaluating methods for determining water use in the High Plains in parts of Colorado, Kansas, Nebraska, New Mexico, Oklahoma, South Dakota, Texas, and Wyoming, 1979: U.S. Geological Survey Water-Resources Investigations Report 80-111, 118 p.

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Heimes, F.J., and Luckey, R.R., 1982, Method for estimating historical irrigation requirements from ground water in the High Plains aquifer in parts of Colorado, Kansas, Nebraska, New Mexico, Oklahoma, South Dakota, Texas, and Wyoming: U.S. Geological Survey Water-Resources Investigations Report 82-40, 64 p.

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Citation

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Citation

Joeckel, R. M., and others. 2001. Dakota Formation (Cretaceous, Albian) Fluvial to Estuarine Sediments in the Lowermost Platte Valley, Nebraska (OFR-61). 52 pp.

Citation	Johnson, C.R., 1960, Geology and ground water in the Platte-Republican Rivers watershed and the Little Blue River basin above Angus, Nebraska: U.S. Geological Survey Water-Supply Paper 1489, 142 p.
Citation	Kastner, W.M., Schild, D.E. and Spahr, D.S., 1989, Water-level changes in the High Plains aquifer underlying parts of South Dakota, Wyoming, Nebraska, Colorado, Kansas, New Mexico, Oklahoma, and TexasPredevelopment through nonirrigation season 1987-88: U.S. Geological Survey Water- Resources Investigations Report 89 4073, 61 p.
Citation	Keech, C.F., 1957, Water levels in observation wells in Nebraska during 1956: U.S. Geological Survey Open File Report 57-61,123p.
Citation	Keech, C.F., and Dreeszen, V.H., 1959, Geology and ground-water resources of Clay County, Nebraska: U.S. Geological Survey Water-Supply Paper 1468, 157 p.
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